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1 Discovery of multi-level rules and exceptions from a distributed database

Rónán Páircéir, Sally McClean, Bryan Scotney

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available: pdf(132.32 KB) Additional Information: full citation, references, index terms

Keywords: aggregates, distributed databases, exception discovery, multi-level statistical models, rule discovery, sufficient statistics

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should be used in education. We finally answer the ...

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57 GPSS - finding the appropriate world-view
James O. Henriksen
December 1981 **Proceedings of the 13th conference on Winter simulation - Volume 2**
Publisher: IEEE Press
Full text available: pdf(898.14 KB) Additional Information: full citation, abstract, references, citings, index terms

Every simulation language embodies a world-view which heavily influences approaches taken in building models in the language. In most applications for which a given language is used, the world-view of the language enforces a discipline of programming which results in models which are time- and space-efficient, reflecting the usefulness of the language and the appropriateness of language choice by the programmer. For some applications, however, the programming style encouraged by the world-v ...

58 Improving statistical language model performance with automatically generated word hierarchies
John G. McMahon, Francis J. Smith
June 1996 **Computational Linguistics**, Volume 22 Issue 2
Publisher: MIT Press
Full text available: pdf(2.02 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

An automatic word-classification system has been designed that uses word unigram and bigram frequency statistics to implement a binary top-down form of word clustering and employs an average class mutual information metric. Words are represented as *structural tags*---n-bit numbers the most significant bit-patterns of which incorporate class information. The classification system has revealed some of the lexical structure of English, as well as some phonemic and semantic structure. The syst ...

59 Dependency preserving probabilistic modeling of switching activity using bayesian networks
Sanjukta Bhanja, N. Ranganathan
June 2001 **Proceedings of the 38th conference on Design automation**
Publisher: ACM Press
Full text available: pdf(226.44 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose a new switching probability model for combinational circuits using a**Logic-Induced-Directed-Acyclic-Graph**(LIDAG) and prove that such a graph corresponds to a**Bayesian Network**guaranteed to map all the dependencies inherent in the circuit. This switching activity can be estimated by capturing complex dependencies (spatio-temporal and conditional) among signals efficiently by local message-passing based on the Bayesian networks. Switching activity estimation of ISCAS and ...

60 Simulation education: Teaching methods: how should we teach simulation?
Ingolf Ståhl
December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '00**
Publisher: Society for Computer Simulation International
Full text available: pdf(266.23 KB) Additional Information: full citation, abstract, references

This paper deals with the issue of how one can teach simulation in the most time-efficient way. We first distinguish between different types of student as regards their background and future needs. We next look at reasons for studying simulation at a business school. Next we compare animation oriented simulators with simulation languages. We then study a list of desirable criteria for simulation software, in particular simulation languages, that

A description of AutoSimulations' simulation tools is given. An example of an AutoMod model is included and a discussion of the integrated environment follows.

53 Parallelization and performance evaluation of circuit simulation on a shared-memory multiprocessor

P. Sadayappan, V. Visvanathan

June 1988 **Proceedings of the 2nd international conference on Supercomputing**

Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms

Circuit simulation is a widely used but computationally demanding tool for VLSI design. In this paper, the considerations in achieving performance improvement through parallelization on a shared-memory multiprocessor are addressed. The two main components that comprise the computational bulk of circuit simulation, namely, matrix assembly and sparse matrix solution, raise very different issues in their parallelization. Parallelizing matrix assembly involves using a sequence of lock-synchroni ...

54 An interactive APL simulation of hospital critical-care units

Donald Segal

May 1979 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: part 1 APL '79**, Volume 9 Issue 4

Publisher: ACM Press

Full text available: pdf(435.34 KB) Additional Information: full citation, abstract, references, index terms

This paper presents an actual case study of the design and implementation of a sizing methodology for Critical-Care nursing units. The results from the unit sizing, which employed a simulation technique programmed in APL, provided the basis for the renovation of the Critical-Care area. The model is an interactive, discrete-event, digital simulator of the Critical-Care unit of a general short-stay hospital. The design is based on the concept that the policies which govern patient admissions, ...

55 Evaluation of a (R,s,Q,c) multi-item inventory replenishment policy through simulation

Carlos B. Cerdaramirez, Armando J. Espinosa de los Monteros F.

December 1997 **Proceedings of the 29th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(653.42 KB) Additional Information: full citation, references, index terms

56 Query processing in a system for distributed databases (SDD-1)

Philip A. Bernstein, Nathan Goodman, Eugene Wong, Christopher L. Reeve, James B. Rothnie

December 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the techniques used to optimize relational queries in the SDD-1 distributed database system. Queries are submitted to SDD-1 in a high-level procedural language called Datalanguage. Optimization begins by translating each Datalanguage query into a relational calculus form called an envelope, which is essentially an aggregate-free QUEL query. This paper is primarily concerned with the optimization of envelopes. Envelopes are processed in two ph ...

Keywords: distributed databases, query optimization, query processing, relational databases, semijoins

48 On the update of term weights in dynamic information retrieval systems

Charles L. Viles, James C. French

December 1995 **Proceedings of the fourth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(834.31 KB) Additional Information: full citation, references, citings, index terms

49 Object-oriented modeling using C++

D. Peter Sanderson, Lawrence L. Rose

January 1988 **Proceedings of the 21st annual symposium on Simulation ANSS '88**

Publisher: IEEE Computer Society Press

Full text available: pdf(859.30 KB) Additional Information: full citation, abstract, references, citings, index terms

Object-oriented modeling provides a natural and powerful paradigm for representing the elements of a discrete-state system and their behavior. The concepts of encapsulation and inheritance are central to the realization of the object orientation. The C + + programming language supports encapsulation through the class construct, and inheritance through derived classes. A hierarchy of C + + classes designed to support an event-oriented simulation viewpoint is presented. The use of this packag ...

50 The SIMPLE_1 simulation environment

Philip Cobbin

December 1987 **Proceedings of the 19th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(989.00 KB) Additional Information: full citation, abstract, references, citings, index terms

SIMPLE_1 is an integrated modeling environment for interactive simulation using the IBM PC, XT, AT and true compatible microcomputers. SIMPLE_1 has a number of innovative features relative to simulation software and programming languages: The implementation of SIMPLE_1 combines compilation and run time systems into an integrated environment including on-line tutorials, learning modules, and a full screen editor coupled to the compiler and run time system. Errors detected by the c ...

51 Calibrating the simulation model of the IBM system/360 time sharing system

P. E. Barker, H. K. Watson

December 1969 **Proceedings of the third conference on Applications of simulation**

Publisher: Winter Simulation Conference

Full text available: pdf(597.29 KB) Additional Information: full citation, abstract, references, citings, index terms

A GPSS/360 model was developed to support the IBM System/360 Time Sharing System (TSS/360) design and evaluation effort. The model was validated by conventional desk-checking procedures and by an extensive measurement effort involving a hardware monitor (SPAR), a software monitor (SIPE), and miscellaneous data-reduction programs. Calibration results obtained with TSS/360 are described, as are some of the benefits derived from the model.

52 Integrated software for manufacturing simulation

Kenneth D. Farnsworth, Van B. Norman, T. A. Norman

December 1987 **Proceedings of the 19th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(712.59 KB) Additional Information: full citation, abstract, index terms

Publisher: ACM Press
Full text available: pdf(237.98 KB) Additional Information: full citation, abstract, references, index terms

The market mechanism design is important for both conventional and electronic commerce as it affects the fairness and efficiency of trading. In this paper, we propose a new market mechanism for time- constrained trading. Our mechanism mimics the traditional brokering system, where buyers and sellers meet together and negotiate through an electronic marketplace. At each time step, agents are paired up for negotiating a deal. We consider that buyer and seller agents are associated with a time ...

Keywords: Markov decision processes, electronic commerce system, market mechanism design, middle agent, multiagent

44 An approach to the construction and usage of simulation modeling in the shipbuilding industry
Mark K. Brazier, Carl J. Perry
December 1991 **Proceedings of the 23rd conference on Winter simulation**
Publisher: IEEE Computer Society
Full text available: pdf(1.09 MB) Additional Information: full citation, references, index terms

45 APLIM—applied linear interactive models
J. I. Ansell, A. M. Sykes
May 1985 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL and the future APL '85**, Volume 15 Issue 4
Publisher: ACM Press
Full text available: pdf(557.43 KB) Additional Information: full citation, abstract, references, citings, index terms

Regression is the most frequently and widely applied technique in Statistics. The field of applications range from experimental design (historically in agriculture) to financial modelling. The technique has been greatly enhanced by the radical approach due to Nelder and Wedderburn. Their approach unified many apparently disparate applications of linear models to produce the Generalized Linear Model. Others have subsequently expanded their work. The paper briefly reviews this work indicating ...

46 Interactive simulation (panel session)
Charles R. Standridge, Kenneth M. Matwiczak, Deborah A. Davis, Kenneth J. Musselman, Daniel T. Brunner
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Publisher: IEEE Press
Full text available: pdf(693.65 KB) Additional Information: full citation, references, citings, index terms

47 Integrated software for manufacturing simulation
Kenneth D. Farnsworth, Van B. Norman, T. A. Norman
December 1986 **Proceedings of the 18th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(823.23 KB) Additional Information: full citation, abstract, index terms

A description of AutoSimulations' simulation tools is given. An example of an AutoMod model is included and a discussion of the integrated environment follows.

Published before July 2001
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41 Performance evaluation of the statistical aggregation by categorization in the SM3 system

C. K Baru, S. Y. W. Su

June 1984 **ACM SIGMOD Record , Proceedings of the 1984 ACM SIGMOD international conference on Management of data SIGMOD '84**, Volume 14 Issue 2

Publisher: ACM Press

Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references

To perform a statistical aggregation operation over a large file often requires that the records of the file be divided into categories based on the values of the attribute(s) over which some statistical computation is to be performed. It is rather inefficient to perform the necessary data transfer, categorization and statistical computation using a single processor Parallel algorithms designed for multiprocessor systems have been proposed and their performance improvement over the conventional ...

42 Evaluation and selection of file organization—a model and system

Alfonso F. Cardenas

September 1973 **Communications of the ACM**, Volume 16 Issue 9

Publisher: ACM Press

Full text available: pdf(959.10 KB) Additional Information: full citation, abstract, references, citings

This work first discusses the factors that affect file (data base) organization performance, an elusive subject, and then presents a methodology, a model and a programmed system to estimate primarily total storage costs and average access time of several file organizations, given a specific data base, query characterization and device-related specifications. Based on these estimates, an appropriate file structure may be selected for the specific situation. The system is a convenient tool to ...

Keywords: access time, data base, data base analysis, data management, file management, file organization, file organization model, file organization performance, file structure design, file structures, secondary index organization, simulation, storage requirement

43 A dynamic mechanism for time-constrained trading

Samuel P. M. Choi, Jiming Liu

May 2001 **Proceedings of the fifth international conference on Autonomous agents**